SUMMER SESSION

MARQUETTE UNIVERSITY

June 20 to August 3, 1929

BULLETIN OF

SUMMER SESSION

MARQUETTE UNIVERSITY

June 20 to August 3, 1929

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CALENDAR

Summer Session 1929

June 20, 21, 22—Registration Days.*

June 24—Classes Begin.

June 26—Last Day of Registration for Credit.

July 4—Independence Day.

August 1, 2—Examinations.

August 3—Summer Convocation.

*Regular Registration Days are June 20, 21, 22. Students registering at a later date will be required to pay an additional fee of $5.00. After 26, no one may register.

SUMMER SESSION

Officers of Administration and Instruction

Rev. William M. Magee, S.J., A.M., LL.D., President of the University.

Rev. William J. Grace, S.J., Dean of the College of Liberal Arts; Director of the Summer Session.

Edward A. Fitzpatrick, Ph.D., Dean of the Graduate School; Professor and Head of the Department of Education.

Jeremiah L. O'Sullivan, B.J., Dean of the College of Journalism; Professor of Journalism.

J. Freeman Pyle, Ph.D., Dean of the College of Business Administration; Professor of Economics and Marketing.

Liborius Semmann, Dean of the College of Music.

Asher Raymond Ball, A.M., Instructor in Latin.

Robert N. Bauer, B.S., Profesosr of Chemistry.

Rev. Francis S. Betten, S.J., A.M., Professor and Head of the Department of History.

Arthur N. Bragg, B.S., Assistant Professor of Zoology.

Rev. Alfred G. Brickel, S.J., A.M., Professor of Classics.

Anthony Bumbalek, Associate Professor of Piano.

May Christoph, Instructor in Piano.

Edwin L. Cordes, E.E., Instructor in Physics.

William Dehorn, Ph.D., Professor and Head of the Department of Modern Languages.

Charles W. Dodge, Associate Professor of Piano.

Francis J. Drobka, Ph.D., Assistant Professor of Education.

John F. Duehren, A.M., Assistant Professor of French.

Rev. Louis W. Forrey, S.J., A.B., Assistant Professor of English.

George R. Griffin, A M., Instructor in Latin.

George M. Harner, B.S., Instructor in Mathematics.

George A. Herrmann, M.S., Assistant Professor of Chemistry.

Nicholas Joseph Hoffmann, A.B., Associate Professor of Finance.

Henry R. Jessel, Ph.D., Assistant Professor of Chemistry.

Ruth C. Klein, A.M., Associate Professor of Speech.

John R. Koch, Ph.D., Professor and Head of the Department of Chemistry.

Raymond L. Krueger, A.M., Instructor in Mathematics.

William M. Lamers, A.M., Instructor in English.

John A. Lapp, Ph.B., LL.D., Professor and Head of the Department of Social Science.

Charles W. Lechleidner, Instructor in Mechanical Journalism.

James A. Lounsbury, M.S., Assistant Professor of Botany.

Peter Luteyn, M.S., Assistant Professor of Mathematics.

John A. McChrystal, A M., Professor of History.

Rev. John F. McCormick, S.J., A.M., LL.D., Professor and Head of the Department of Philosophy.

Francis Magyar, Agrégé, Associate Professor of Modern Languages.

Edward J. v. K. Menge, Ph. D., Professor and Head of the Department of Zoology.

Harvey P. Pettit, Ph.D., Professor and Head of the Department of Mathematics.

John O. Riedl, A.M., Instructor in Philosophy.

Hugh Leo Riordan, A.M., Associate Professor of Business Administration.

Miriam G. Robertson, A.B., Instructor in Speech.

Charles L. Scanlon, A.M., Instructor in Modern Languages.

Leo A. Schmidt, A.M., Associate Professor of Accounting.

Eric W. Schroetter, J.U.D., A.M., Instructor in German.

Marie Schrup, Instructor in Violin.

Charles H. Skinner, Ph D., Professor of Physics.

William N. Steil, Ph.D, Professor and Head of the Department of Botany.

William H. Ten Haken, A.M., Assistant Professor of Real Estate Practice.

George E. Vander Beke, Ph.D., Professor of Education.

Ernest F. Wallner, Ph.G., Ph.C., Associate Professor of Chemistry.

Lillian Watts, Professor of Public School Music.

William Wegener, Professor of Voice Culture.

Thomas P. Whelan, A.M., J.D., Professor of English.

Edna Wilk, Instructor in Piano.

Alice M. Brennan, A M., Principal Elementary School, Milwaukee University School, Lecturer in Education.

Rev. Francis P. Donnelly, S.J., A.M., Professor of English, Fordham University, Lecturer in English.

Rev. Thomas J. Moore, S.J., A.M., Professor of Philosophy, Creighton University, Lecturer in Philosophy.

Marion Preece, A.B., Lecturer in Sociology.

Rev. Henry Suelzer, S.J., A.M., Lecturer in Philosophy.

Edward A. Thompson, A.M., Lecturer in Speech.

Mary L. Melzer, Registrar.

May Dooley, Bursar.

THE UNIVERSITY

Marquette University embraces the following Schools and Colleges: College of Liberal Arts, Graduate School, School of Medicine, Law School, College of Applied Science and Engineering, College of Business Administration, College of Journalism, College of Dentistry, College of Music, School of Nursing, and Summer Session.

THE SUMMER SESSION, 1929

Colleges Offering Summer Session Work

Summer Session courses are offered in the College of Liberal Arts, the Graduate School, the College of Music, the College of Journalism, the School of Speech, and the College of Business Administration.

THE PURPOSE OF THE COURSES

The Summer Session offers opportunities to the following classes of students:

1. Undergraduates and graduate students who desire to obtain credit toward a degree, or shorten the time necessary to complete the requirements for a degree.

2. Superintendents, principals, teachers and prospective teachers who wish to pursue both academic and professional work.

3. Persons who wish to pursue certain courses for their cultural value.

GRADUATE SCHOOL

Graduate students in the Summer Session are subjected to the same scholastic requirements as those in regular attendance during the year. Their courses must be approved by the Dean or his representative. The minimum requirement of residence for the Master's degree may be satisfied by attendance at five Summer Sessions or one semester and three Summer Sessions. The requirements of candidacy for the Master of Arts in the Summer Session are identical with those in force for the academic year.

The maximum number of credits that a graduate student can earn is six. No course given in the Summer Session may be offered for credit toward a higher degree unless it is specially described in the Summer Session announcement as accepted for the purpose or approved in advance by the Dean or his representative. Courses numbered 200 or above are graduate courses. Graduate students may be admitted to certain courses numbered below 200 with the specific approval of the Dean.

No condition examinations are given graduate students.

Character of Graduate Work. Students should acquaint themselves with the graduate bulletin. In this connection it will be helpful to quote the statement on the character of graduate work, which is: "Students engaged in graduate studies should realize their studies are expected to be free from the methods of undergraduate work. Students pursuing graduat work and the officers of administration and instruction should persistently work together to develop a spirit of genuine interest and independence in graduate study and so replace mere formal requirements with positive achievement and the development of creative and progressive efficiency.

"Although the graduate work may be specified in a minimum number of semester hours, the results of this work, to be acceptable, must be shown in ability to comprehend and to work out a specific problem in a chosen field and in the power to do independent scientific work and to formulate such conclusions as may in some respects modify or enlarge what was previously known."

Planning Your Work. Students who expect to receive their higher degrees in Summer Sessions should definitely plan their work over a series of years. The Dean of the Graduate School will be available in his office to assist students in this work. Major Professors should be consulted in the first instance and will welcome the opportunity to guide you.

Requirements for Graduate Degrees. The principal requirements for the degrees of Master of Arts, Master of Science, and Doctor of Philosophy, is laid down in the General Information Bulletin of the Graduate School, may be summarized as follows:

Master's Degree

1. Twenty-four semester hours credit.
2. One year's residence at Marquette.
3. Reading knowledge of one modern foreign language.
4. General examination—about March 15.
5. A Master's thesis.
6. Oral examination on thesis.

Doctor's Degree

1. Seventy-two semester hours credit, 3 years.
2. One year's residence at Marquette.
3. Reading knowledge of two modern foreign languages.
4. Preliminary examination—about Nov. 15.
5. A Doctor's dissertation.
6. Oral examination on dissertation.
7. Publication of thesis or an abstract.

Master's Theses. Students should not later than the third summer have determined their Master's thesis, and have it well under way before the end of the fourth summer. The thesis must be filed in the office of the Dean of the Graduate School in accordance with the general regulations of the University by June preceding the summer session at the end of which they may expect to receive the degree, or in general in accordance with the regulations.

The General Examination for the Master's Degree. All students who are candidates for the Master's degree on the basis of summer session work, must take their general examination at least a year before they receive their degree. Opportunity will be given during the Summer School, but the Dean must be advised during the first week.

Residence Requirement for the Doctor's Degree. The minimum residence requirement for the Doctor's degree may not be absolved by attendance at Summer Schools.

UNDERGRADUATE COURSES

Registration in Summer Courses. Students already matriculated in the University may register in any course listed in this Bulletin provided they have had the prerequisites for the course. New students may also register in any course under the same conditions.

CREDIT

Credit is given for work satisfactorily completed in courses of the Summer Session in the same ratio as for work done during the college year; for example, a five hour course for the six weeks of the term yields two semester hours credit. Two hours of laboratory work is counted as the equivalent of a one-hour lecture or recitation period. Six semester hours (fifteen recitation hours per week) is considered a full schedule.

The University reserves the right to drop any courses in which there is not sufficient registration.

DEGREES

The work of the Summer Session leads to the degrees of B.A., B.S. and Ph.B. in the College of Liberal Arts, Mus.B. in the College of Music and M.A., M.S. and Ph.D in the Graduate School. For the requirements for these degrees, the general catalogue may be consulted.

To receive the Bachelor's degree, a student must offer at least 128 semester hours of credit and 128 quality credits or credit points,* of

*For a grade of A in a given course, the student will receive three times as many credit points as there are hour credits in any course; for a grade of B, twice as many credit points; for a grade of C, as many credit points as hour credits; while D gives hour credits but no points. For example: A four-hour course in which the student receives A, gives twelve credit points; if the grade is B, 8 credit points; if C, 4 credit points. The minimum number of credit points to qualify for a degree is 128.

which at least 32 hours must be earned in residence at the University. He must complete at least one major and two minors and must present a thesis on some topic dealing with his major subject and approved by the Dean. **For Major and Minor requirements,** see departments listed on pages 9 and following.

AUDITORS AND SPECIAL STUDENTS

Adults who desire to pursue college work for profit or pleasure, but without reference to a degree, and those who desire merely to visit lecture courses in subjects which are of special interest to them, without being held responsible for the work expected of students working for credit, may register in the Summer Session as auditors. Auditors pay the same fees as other students, but may not avail themselves of recitations and examinations.

FACULTY

The professors conducting courses in the Summer Session are members of the University staff and a selected group of distinguished teachers from other institutions. It will be the object of the professors to give personal assistance and encouragement to students attending the session.

TUITION AND FEES*

Matriculation Fee† (not returnable)	$10.00
Tuition Fee:	
College of Liberal Arts	30.00
School of Speech††	30.00
College of Business Administration	30.00
Graduate School	30.00
Laboratory Fee, Science‡	5.00
Laboratory Breakage Fee§	5.00
College of Music:	
1. Courses S3, S3b, S3c, S4	30.00
2. Class Piano and Vocal, three lessons weekly	24.00
3. Class Violin, three lessons weekly	24.00
4. Combination of two semester hours in Liberal Arts, Music S3, S3b, S3c, S4, Class Piano, Violin, Vocal, and Harmony and Musical Appreciation	48.00
5. Combination of four semester hours in Liberal Arts, and Harmony and Musical Appreciation	33.00
6. Combination of four semester hours in Liberal Arts, Music S3, S3b, S3c, S4, and Class Piano, Violin, Vocal	37.50

*Tuition and fees must be paid before the student is admitted to classes.

†Paid only by students who have not previously matriculated at Marquette University. This fee is not returnable.

**The charge for private lessons varies with the teacher selected. For private lesson rates write Liborius Semmann, Dean, College of Music, 1505 Wisconsin Ave.

‡For each Science subject: Chemistry, Botany, Physics, and Zoology.

§For each Science subject: returnable.

††Private Lessons: For rate of instruction write or call Director, College of Music Building, 1505 Wisconsin Ave.

LATE REGISTRATION FEE—Students failing to register on the days set for the purpose must pay a late registration fee of $5.00

Registration is not completed until all fees are paid.

BOTANY

Professor Steil and Assistant Professor Lounsbury

Major: 26 hours, including thesis.

Minor: 14 hours.

S1. General Botany. A general and introductory course in Botany. This course includes a study of the plant, its gross and minute structure; the study of all the life processes of the plant and its relation to the environment; the study of the cell, and cell and nuclear division; a complete evolutionary series; and special studies of flowers, fruits, seeds, and seedlings. Four hours credit.

Lecture, 8 a.m., S309. Dr. Steil.
Laboratory, 10 to 12 a.m., S 307. Mr. Lounsbury.

S106. Morphology of Fungi. The course aims to cover the study of the structure and the development of type forms of the more important orders of the fungi. Emphasis is placed upon the general scheme of classification and upon species economically important as plant pathogens. Fifty or more genera are studied in the laboratory. Occasional lectures and discussions are used to correlate the more theoretical phases of the work.

Prerequisite: Botany 1. Two hours credit.
1 to 3 p.m., S307. Mr. Lounsbury.

S110. Plant Genetics. An introductory course in Plant Genetics. A thorough study of Mendelism will be made, and the application of Mendelian principles will be discussed. The technique of crossing plants, and the results of actual crosses will be studied. The course will include readings, lectures and laboratory work.

Prerequisites: Botany 1 and 2. Two hours credit.
9 a.m., S309. Dr. Steil.

S130. Economic Botany. A study of the distribution of economic plants; the principal centers of distribution; the plants of special economic value. The methods involved in the preparation of the different commercial plant products will be studied. Trips will be made to industrial plants of the city for the purpose of studying these methods first hand.

Prerequisites: Botany 1 and 2. Two hours credit.
1 p.m., S309. Dr. Steil.

CHEMISTRY

Professors Koch, Bauer, Assistant Professors Jessel and Wallner, and Mr. Herrmann

Major: 26 hours, including thesis.

Minor: 16 hours.

S1. Inorganic. Lectures, recitation and laboratory. The fundamental laws and theories. The chemistry of the non-metallic elements.
Textbook: Introductory "College Chemistry," Holmes.
Lecture 9 a.m., S300. Four hours credit.
Laboratory 10 to 12 a.m., S401. Mr. Bauer.

S2. Inorganic. Lectures, recitations and laboratory. Continuation of Course 1. The chemistry of the metallic elements.
Laboratory—Qualitative Analysis. Prerequisite: Chemistry 1.
Textbook: Introductory "College Chemistry," Holmes.
Lecture 11 a.m., S300. Four hours credit.
Laboratory 9 to 11 a.m., S401. Mr. Herrmann.

S10. Quantitative Analysis. Lectures, recitations and laboratory. Elementary gravimetric and volumetric analysis. Prerequisite: Chemistry 2. Four hours credit.
Laboratory 8 to 12, S17. Mr. Wallner.

S11. Quantitative Analysis. Continuation of course S10. Prerequisite: Chemistry 10. Four hours credit.
Laboratory 8 to 12, S17. Mr. Wallner.

S120. Organic. Lectures, recitation and laboratory. The chemistry of the aliphatic compounds. Prerequisite: Chemistry 1 and 2.
Lecture 8 a.m., S300. Four hours credit.
Laboratory 9 to 11 a.m., S404. Dr. Koch.

S121. Organic. Lectures, recitation and laboratory. The chemistry of the aromatic compounds.
Prerequisite: Chemistry 120. Four hours credit.
Lecture 11 a.m., S406. Dr. Koch.
Laboratory 9 to 11 a.m., S404.

S140. History of Chemistry. Lectures. A survey in which emphasis will be placed on the development of important theories during the last century.
Prerequisite: Chemistry 2. Two hours credit.
Time to be arranged, S406. Dr. Jessel.

BUSINESS ADMINISTRATION AND ECONOMICS

Dean Pyle, Associate Professors Hoffman, Riordan, Schmidt, and Assistant Professor Ten Haken

Economics S10. Principles of Economics 1. This course involves a study of the fundamental underlying principles of modern industrial society. Beginning with a characterization of modern industrial organizations, the student is led to an analysis of the problems of production, value as it arises in the exchange of goods, human wants and their satisfaction in consumption. Two hours credit.
10 a.m., J300. Dr. Pyle.

B.A. S25. Business Letters and Reports. The aim of this course is to give practical training in the writing of effective business letters and the preparation of business reports. All the principal types of business letters are studied and written—sales letters, collection letters, adjustment letters, letters of application. In addition to the letters, business and consular reports are written by the students. Collection follow-ups and mail sales campaigns are organized. Two hours credit.
9 a.m., J309. Mr. Riordan.

B.A. S32. Principles of Accounting I. The purpose of this course is to explain and illustrate the fundamentals underlying accounting principles and to teach the student how to apply these principles to everyday accounting problems. Emphasis is upon the uses to which the accounts are to be put. The student is led step by step from the simple to the more complex parts of accounting. No previous knowledge of bookkeeping is required. Two hours credit.
9 a.m., J406. Mr. Schmidt.

B.A. S34. Advanced Accounting I. Advanced analytic study of accounting, with special emphasis on the more difficult phases of corporate formation, operation, and dissolution. Particular attention is given to Capital and Surplus Accounts, Dividends, Reserves, Depreciation, Intangible Assets, Deferred Charges, and other special topics in advanced general accounting. Two hours credit.
8 a.m., J406. Mr. Schmidt.

B.A. S125. Office Management. This course involves the study of the following topics: the principles and methods of organization and administration of office forces; the field of the office manager; departmental and unit methods of organization; the selection, leasing and layout of an office; methodizing the means of communication.
Two hours credit.
8 a.m., J404. Mr. Riordan.

B.A. S128. Business Law. This course consists of a study of the essentials of business law. The development of the common law and statutory modifications thereof, pertaining to carriers, land ownership

and transfer, mortgages, insurance, banks and banking, bankruptcy, crimes as effecting business, and regulation of trade, are studied by means of court decisions and problems illustrating the principles of law considered. The course is offered primarily for students of business administration and others interested in government, as well as general culture. Two hours credit.

8 a.m., S100. Mr. Ten Haken.

B.A. S135X. Accounting Systems. The purpose of this course is threefold: First, to outline the principles of system construction; second, to present the procedure of system installation; and third, to illustrate the application of systematizing principles and procedure to the problems of constructive accounting, as encountered under various circumstances.

Prerequisite: A year's course in Accounting Principles.

Two hours credit.

10 a.m., J406. Mr. Schmidt.

B.A. S140. Introduction to Marketing Organization. This is an introductory course in the field of marketing. Its purpose is to give a general understanding and appreciation of the forces operating, institutions employed, and methods followed in marketing raw materials and manufactured goods. Such topics as the function and mode of operation of wholesale and retail merchants, brokers, commission firms, auctions, produce exchanges, storage, and transportation companies; market finance, standardization, speculation and costs of marketing are surveyed.

Two hours credit.

11 a.m., J300. Dr. Pyle.

B.A. S142. Principles of Advertising. A survey of the field of advertising treating of the problems and scope of advertising, the place of advertising in business, its relation to other branches of marketing, the human aspects of the market, the appeals, the presentation of the appeals, and the special fields of advertising. Two hours credit.

11 a.m., J402. Mr. Riordan.

B.A. S150. Introduction to Banking and Finance. This course is a general survey of the structural and functional aspects of the principal financial institutions of modern industrial society. It lays the foundation for advanced courses in finance. The following forms of financial instruments and institutions are studied: Money and investment banking; stock exchanges; trust and savings institutions; monetary systems; credit and credit instruments; investment trusts; commercial banks; commercial paper houses and discount companies; business cycles; and the Federal Reserve System. Two hours credit.

9 a.m., J402. Mr. Hoffman.

B.A. S151. Financial Administration. This course presents a study of the principles of finance involved in problems confronting primarily the small and medium-sized business enterprises. The relationship of the financial department to all other functional divisions of the business is given especial emphasis throughout. The course considers: Forms of business enterprises; work of the promoter; laws and conditions of incorporation; nature and purpose of state regulation; securing capital; forms of securities employed; underwriting; working capital; accumulation of surplus and the provision for new capital; distribution of dividends; relation of shareholders, creditors, and the general public to the corporation; balance sheets and their interpretation; financial abuses and involvements.. Two hours credit.
Prerequisite: Business Administration 150.
10 a.m., J408. Mr. Hoffman.

B.A. S152. Investments and Statement Analysis. This course presents a study of the fundamental principles underlying sound investments. During a part of the course, financial statements will be analyzed for investment credit purposes and, if a sufficient number of students prefer, the major emphasis of the course will be directed to this phase of the investment field. Two hours credit.
11 a.m., J406. Mr. Hoffman.

B.A. S170. Fundamentals of Real Estate Practice. This is a study of the principles of real estate practice. An attempt is made to survey the entire field of real estate from the point of view of the "realtor," although the study would be of interest and value to any one concerned with the many problems of land utilization. Among the topics considered are the following: The land policy of the United States, the economic development of agricultural and urban life, the nature of real property, estate of freehold, estates in expectancy, equitable estates, conveyancing, incumbrances on real estate, restrictions on the transfer of real estate; the registration of titles, valuation, taxation, improvement of real estate, problems of insurance, and city planning development.
Two hours credit.
10 a.m., J405. Mr. Ten Haken.

B.A. S171. Land Planning. The policies and practices involved in city planning, subdivision platting, zoning, rural and national planning are studied. The benefits, to both the public and to the individual, to be derived from the application of sound principles of land planning to the problems of city growth, land values, housing, congestion, traffic, and shifting districts can scarcely be overemphasized. Two hours credit.
9 a.m., J411. Mr. Ten Haken.

B.A. S173. Real Estate Transferring and Conveyancing. In addition to the non-technical treatment of the principles of law with which a real estate dealer should be familiar, a knowledge of the common problems

which he will meet in the preparation of papers incidental to the transfer and conveyance of real estate is essential. The course is intended to acquaint the student with the various legal documents in common use, and to discuss the content, the proper use and the effect of each instrument. Some of the more important legal instruments which will be analyzed are: sales contracts, deeds, mortgages, escrow agreements, trust deeds, and leases. Two hours credit.
11 a.m., J411. Mr. Ten Haken.

EDUCATION

Major: 20 hours, including thesis.

Minor: 12 hours.

Dean Fitzpatrick, Professor Vander Beke, Assistant Professor Drobka, and Miss Brennan

S104. Principles of Education. This course introduces the student to a study of current educational problems and to scientific methods of solving them. Reports are required of each member of the class. Primarily for advanced undergraduate students. This course or the graduate course in the Philosophy of Education (200) is required in Wisconsin for a State Teachers' Certificate.
Text: Grizzell: "Education: Principles and Practices."
8 a.m. daily and Three hours credit.
12 m. T., Th., S., J201. Dr. Drobka.

S109. Educational Psychology. The nature of different types of learning, appreciation of the principles which underlie successful guidance of learning; types of individual difference in learning; general effect of learning or transfer of training. This or the advanced course (270) is required in Wisconsin for a State Teachers' Certificate.
Text: Gates: "Psychology for Students of Education."
11 a.m. daily and Three hours credit.
12 m. M., W., F., J202. Dr. Vander Beke.

S116. Educational Measurements. The course aims to give educational workers the point of view, knowledge, and skill necessary to apply scientific methods in the study and improvement of teaching. Lectures and laboratory exercises covering the statistical and scientific methods; existing tests and scales; the use of measurements as an aid to administration and supervision, efficiency of educational processes emphasizing mainly the subjects in elementary education will be studied.
Two hours credit.
10 a.m., J302. Dr. Vander Beke.

S122. EC. Methods of Teaching English Composition. General principles and various methods of teaching composition. The method of models: for teaching the qualities of style, the processes of composi-

tion, and the types of composition. Aids in teaching composition. (Not counted toward Major in English.) Two hours credit.
9 a.m., J304. Fr. Donnelly.

S122. FL. Methods of Teaching Modern Foreign Languages. A consideration of the psychological basis of foreign language acquisition. The aims, methods, testing of teaching results, and adaptation of remedial procedures in a modern foreign language course in the secondary schools. A survey of the published reports of the Modern Language Study Committee will be made. Two hours credit.
9 a.m., L.H. 3. Dr. Dehorn.

S122. Sc. Methods of Teaching Science in the Junior and Senior High School. The science curriculum and the efforts to reorganize it on the junior and senior high school levels. The scientific, civic, cultural, and industrial objectives of science. The objectives, content, organization and presentation of science. The presentation of certain typical problems. Relation to subsequent study of specific sciences.
Two hours credit.
9 a.m., J201. Dr. Drobka.

S162. Parental Education—The Parent-Teacher Organization. The purpose of this course is to help teachers and principals in their organization of parent-teacher groups. The place of the parent-teacher movement in education, types of programs to be given, problems, opportunities and achievements of such organizations will be considered. This course will acquaint its members with the literature of parental education and the technique of handling parent groups. Two hours credit.
11 a.m., J201. Miss Brennan.

S205. Training for Character. Various educational proposals, historical and contemporary. Herbart, Froebel, Spencer, and Russell. The Iowa plan. Character as life dominated by principles. Moral action. Juvenile Delinquency. "Stratification of Conscience." The place of knowledge, habit, ideals, judgment, health, and morals. Morale. The will. The self and the integration of personality. The teacher, school curriculum, and school discipline as factors in moral training. Tests. Literature as a criticism of life. The place of home, church, and the social institutions. Boy Scouts and the Knighthood of Youth. Religion and morals. The Catechetical method. Educational Case Records.
Texts: Hull's "Formation of Character"; Character Education (U. S. Bureau of Education, Bulletin 1926, No. 7).
Two hours credit.
10 a.m., J201. Dr. Fitzpatrick.

S212. Psychology of Elementary School Subjects. This course covers the field of elementary school subjects, giving the psychology underlying the teaching of each, the scientific investigations made in the sub-

ject, and the principal issues in the teaching problems. Such questions as the following will be considered: In arithmetic, should the additive method replace the borrowing method? rationalization vs. habit formation; in reading, the word, phrase, and sentence methods, remedial work, the place of phonics; spelling, the value of a test-study method. The social sciences, handwriting, language will be considered in like manner. Because of its scope this course cannot deal in great detail with any one subject. It is designed for teachers and principals who wish a broad general view of the elementary subjects. Two hours credit.
8 am.m., J408. Miss Brennan.

S219. Teaching of Arithmetic. A course for teachers, supervisors, and principals. A consideration of several aspects of arithmetic upon which the immediate application of the known laws of learning, the test movement, and the present tendency to analyze the content of the curriculum can be made. The selection of the topics to be studied will be determined by their value to actual class room practice.
Two hours credit.
9 a.m., J408. Miss Brennan.

S229. Reorganization of Secondary Education. This course will consider the proposals that have been made for the reorganization of secondary education. The junior high school and the junior college will be considered in their development. Actual changes and proposals. The senior high school. The standards set up by regional standardizing agencies. The standards in the light of educational investigations. Standards in relation to actual educational service. Dr. Fitzpartick will cooperate with the instructor in giving suggestions as to method of handling specific problems in your own institution. Two hours credit.
11 a.m., J400. Dr. Drobka.

S253. Parochial School Administration—Seminar. This course will be conducted by the seminar method and students will register in accordance with their major interest. Personal conferences will be provided for generously. Group meetings will be held at times determined at the beginning of the course. Reports will be submitted to the entire group. Limited to ten registrants.
Text: Sr. Esther's "Christian Teacher" and Lindworsky's "Training of the Will." Secure also "Character Education."
Hour to be arranged. Two hours credit.
Dr. Fitzpatrick.

S395. Catechetical Methods of Instruction—Seminar. This is an advanced research course in catechetical methods of teaching religion, open to teachers who have had considerable experience in the field in schools or in the Catholic Instruction League classes. Recent efforts to modify catechetical methods will be studied as an introduction to the detailed

constructive study of specific problems. Credit will be given for the course only for constructive pieces of work. Limited to ten registrants. Hour to be arranged. Two hours credit.

Drs. Fitzpatrick and Vander Beke.

ENGLISH

Professors Forrey, Donnelly and Whelan, and Mr. Lamers

Major: 24 hours including thesis.

Minor: 18 hours.

S5. Survey. A survey of English literature from the earliest period as far as the Age of Dryden. There are required readings designated to cover the various periods and to illustrate the development of literary forms and the main currents of thought that went to the making of English literature. Representative authors are stressed, and systematic essay-writing, based on readings and lectures, is required.

Two hours credit.

8 a.m., J300. Mr. Lamers.

S107. American Literature. From the Colonial period to the present. The literary development of Colonial times is examined for its historic worth. There is a more intense study of the imaginative prose and poetry of the Nineteenth Century. Foreign influences are carefully studied and reinterpreted in the light of recent research. The emergence of an American literature is examined from a historical and critical viewpoint. There is a careful evaluation of the main currents and tendencies manifested in Contemporary American prose and poetry.

Two hours credit.

9 a.m., J302. Mr. Lamers.

S112. Editorial Writing. The Editorial Page. Preparation of critical and interpretive editorials. The editorial paragraph.

Two hours credit.

9 a.m., J404. Dean O'Sullivan.

S113. Poetic Forms and Metrics. The primary aim of this course is to give students exact knowledge of the species of poetry, their metrical and rhythmical structure, and their aesthetic functions. The principles of English versification will be derived inductively from a study of the forms of English and American poetry, and some attention will be given to the craftsmanship of verse. Examples of all forms of verse will be read in class, and contemporary poetry, including American imagist and free verse, will be studied from the side of form. The course meets the

special needs of those who intend to teach poetry in schools, or who may engage in reading-circle work, or who write or will write verse.

Two hours credit.

8 a.m., J304. Fr. Forrey.

S122. EC. Methods of Teaching English Composition. General principles and various methods of teaching composition. The method of models: for teaching the qualities of style, the processes of composition, and the types of composition. Aids in teaching composition. (Not counted toward Major in English.) Two hours credit.

9 a.m., J304. Fr. Donnelly.

S125. Modern Drama. A study of modern drama from an artistic and organic as well as a historical point of view. The technique of the modern drama. Problems of the modern stage and theatre; attempts at their solution. An appreciation of the designs and scenic arts of Gordon Craig, Reinhart, Stanislawski, Jessner, Copeau; their relations with and conscious adaptation of the past of Greek, Medieval and Baroque. An evaluation of the drama of ideas, with special emphasis on its social and moral values; its relation to contemporary thought. Rapid reading of the more representative plays of Ibsen, Rostand, Galsworthy, Shaw, Yeats, Synge, Moody, Claudel, O'Casey. Henri Gheon and the revival of the Christian theatre. The modern miracle play and its debt to Gheon and Sierra. Two hours credit.

11 a.m., J302. Dr. Whelan.

S145. Main Currents in Modern English Literature. A brief survey of the masters of modern English literature. Such writers as Masefield, Galsworthy, Chesterton, Belloc, Brooke, Higgins, Abercrombie, Sasoon, the Sitwells, Katherine Mansfield, Rebecca West, Dorothy Richardson, Shaw, O'Casey, and Eliot are studied. Special emphasis is laid on social forces and theories of life. There is selection and evaluation of changes in thought and technique. New forms are related to the changing flux of ideas. The purpose of the course is to place the student in the current of modern English literature, to develop an historic sense, and a critical appreciation from an active contact with the creative work of those writers who are endeavoring to express, either in new or traditional forms, the currents of thought and conscious experience peculiar to our age. Two hours credit.

8 a.m., J302. Dr. Whelan.

S150. Shakespeare. Salient biographical facts. Sources of Shakespeare's drama; its relation to that of the University of Wits. A study of the chief plays and a comparison with those of other dramatists. The growth and development of Shakespeare's dramatic art. The Elizabethan stage and theatre. The Renaissance spirit and influence in Shakespeare's work. An acquaintance by reading and through written assign-

ments with the more recent results of Shakespearean research. A selection and critical appreciation of the esthetic principles and dramatic traditions discernible in Shakespeare's comedy and tragedy. Shakespeare as a poet and articifer of dramatic speech. Two hours credit.
10 a.m., J400. Dr. Whelan.

S152. Newman. His commanding position in the religious and intellectual life of the Nineteenth century; life and association at Oxford; Catholic life; his philosophy of education in the "Idea of a University"; his controversial, apologetic and homiletic works; the great Christian protagonist in the warfare of modern rationalism; perfection of form in his prose. Two hours credit.
10 a.m., S100. Fr. Forrey.

S153. Shelley and Keats. The salient facts in the tragic lives of the two young poets are reviewed. The course consists mainly of an appreciative study of their poems as illustrative of the lyric genius and individualism of English Romanticism. An intensive study of certain representative poems is an essential. Recognition and criticism of the main ideas peculiar to the moral and social viewpoints of the period are stressed. Two hours credit.
11 a.m., Law B. Mr. Lamers.

S203. Principles of Taste and Criticism. A course in esthetics, dealing with the art world—its philosophy, its creation, and its qualities. Criticism of the literary art world. Two hours credit.
11 a.m., J304. Fr. Donnelly.

HISTORY

Professors Betten and McChrystal

Major: 24 hours, including thesis.

Minor: 15 hours.

S105. The United States, 1829-1929. This is a general course in American History in which emphasis is placed on the ideas and convictions of great personages as more significant than mere political events in reconstructing a civilization that may be called "American."
Two hours credit.
10 a.m., J203. Mr. McChrystal.

S151. The First 800 Years After Christ. Survey of the conditions in the Roman Empire; the Decree of Milan; the Christian Emperors; the first Councils; extensions of Christianity beyond the boundaries of the Empire; the invasions of the barbarians; gradual cessation of the Empire in the west; the new states in the Roman provinces; reconquests by the Eastern Empire; the fate of civilization; monasticism and its in-

fluence; influence of the Popes; the Franks and their kingdom; the foundation of the Papal States; Charlemagne. Two hours credit.
9 a.m., J203. Fr. Betten.

S153. The Period of the Crusades, 1300-1500. The Christian and the Mohammedan Orient; the causes of the Crusades; the Council of Clermont; the several Crusades; the military religious Orders; the Western Empire during the period of the Crusades; medieval architecture; the results of the Crusades, political, economic, social, ecclesiastical; the Mendicant Orders. Two hours credit.
11 a.m., J203. Fr. Betten.

S163. The Reformation in Germany, Switzerland, France, Netherlands, England, Scotland. The Counter Reformation. Two hours credit.
8 a.m., J203. Mr. McChrystal.

S200. Seminar in Historical Methods. The principles of historical evidence and the process of historical research. Two hours credit.
11 a.m., J401. Mr. McChrystal.

Sumerian Literature. As the Summer Session bulletin goes to press there is prospect of a course in Sumerian Literature by a European scholar.

JOURNALISM

Dean O'Sullivan and Mr. Lechleidner

S112. Editorial Writing. The Editorial Page. Preparation of critical and interpretative editorials. The editorial paragraph. (May be counted as English.) Two hours credit.
9 a.m., J404. Dean O'Sullivan.

S120. History of Journalism. Innate desire of mankind for news. Development of news gathering and distribution. A survey of newspaper in America from the first pamphlets. Present tendencies in Journalism. Two hours credit.
11 a.m., J305. Dean O'Sullivan.

S121. History and Art of Printing and Publishing. A study of the invention and development of printing. Type calculations. The point system. Type faces and their fitness for certain classes of printing. Fundamental principles of composition and make-up. Press work. Paper. Binding. Two hours credit.
11 a.m., J309. Mr. Lechleidner.

127. School Publications. A course designed to give the procedure and methods for handling college and high school publications. Purpose, field and scope of school publications; organization of staff and direction of publication work. (May be counted as Education.) Two hours credit.
8 a.m., J307. Dean O'Sullivan.

LATIN

Professor Brickel, Mr. Ball and Mr. Griffin

Major: 24 hours, excluding courses 1 and 2, and including thesis.

Minor: 12 hours, excluding courses 1 and 2.

S3. Cicero; Sallust. Orations against Catiline III-IV; selections from the Bellum Catilinae. Two hours credit.
8 a.m., L.H. 3. Mr. Griffin.

S4. Cicero, Pro Lege Manilia. Two hours credit.
8 a.m., L.H. 1. Mr. Ball.

S12. Horace, Ars Poetica. Two hours credit.
9 a.m., J305. Mr. Griffin.

S16. Horace, Odes. Two hours credit.
11 a.m., S308. Mr. Griffin.

S17. Cicero, De Senectute. Two hours credit.
10 a.m., L.H. 3. Mr. Ball.

S102. Tacitus, Agricola and Germania. Two hours credit.
11 a.m., L.H. 4. Mr. Ball.

S253. Mediaeval Latin Verse. Two hours credit.
9 a.m., J300. Fr. Brickel.

S255b. St. Augustine, "Confessiones." Two hours credit.
10 a.m., J304. Fr. Brickel.

MATHEMATICS

Professor Pettit, Assistant Professor Luteyn,
Mr. Harner and Mr. Krueger

Major: 20 hours, excluding courses 1 and 2, and including thesis.

Minor: 12 hours, excluding courses 1 and 2.

S1. Trigonometry. Definitions of trigonometric functions, relations between the functions, identities and trigonometric equations, functions of multiple and submultiple angles, application to the solution of triangles, including use of logarithms. Two hours credit.
11 a.m., J405. Mr. Krueger.

S2. College Algebra. Laws of indices and applications, logarithms, simultaneous linear systems, introducing determinants, quadratic equations, inequalities, variation, progressions, theory of equations, permutations and combinations, binomial theorem and series. Two hours credit.
10 a.m., S308. Mr. Harner.

S5. Analytic Geometry. Rectangular coordinates, distances, areas, the straight line, conic sections, graphing of functions, polar coordinations, and some important higher plane curves. Four hours credit.
8 and 9 a.m., J400. Mr. Luteyn.

S6. Differential Calculus. Differentiation of functions, maxima and minima, curve tracing, rates, formal integration and applications to geometrical and physical problems. Four hours credit.
8 and 9 a.m., J405. Mr. Krueger.

S7. Integral Calculus. Formal integration and summation; processes and methods. Geometrical and physical application, (area, length, surface, volume); multiple integrals; approximation-formulas; Series, Taylor formula and theorem.
Prerequisite: Mathematics 6. Four hours credit.
8 and 9 a.m., S308. Mr.Harner.

S121. Theory of Determinants. General properties of determinants and matrices with their important applications. Two hours credit.
11 a.m., J404. Dr. Pettit.

S133. Higher Plane Curves. General properties of plane curves in general, with special attention to algebraic curves and the cubic and quar curves in particular. Two hours credit.
10 a.m., J404. Dr. Pettit.

S140. Differential Equations. Introduction to the solution of ordinary differential equations; important special equations, singular solutions, envelopes, with geometric and physical applications.
Two hours credit.
10 a.m., J309. Mr. Luteyn.

MODERN LANGUAGES

FRENCH

Professor Dehorn, Associate Professor Magyar,
Assistant Professor Duehren, Mr. Scanlon and Mr. Schroetter

Major: 20 hours, including thesis, and excluding courses 1 and 2.

Minor: 12 hours, excluding courses 1 and 2.

S1. Elementary Course. Grammatical minima of French, inductive readings, pronunciation, practice in speaking and writing.
Four hours credit.
8 and 10 a.m., L.H. 4. Dr. Dehorn.

S3. Intermediate Course. Reading of French prose and poetry, subjects in French history and biography, composition, conversation.
Prerequisite: French 2 or equivalent. Four hours credit.
8 and 10 a.m., J305. Mr. Duehren.

Modern Language 122. Methods of Teaching Foreign Languages. The methodical question, philological introduction, and literary selections. (Not counted toward a Major.) Two hours credit.
9 a.m., L.H. 3. Dr. Dehorn.

S192. History of French Literature from Malherbe to the Present Time. A general outline of the classic period, of the romantic movement, of the reaction against Romanticism.
Prerequisite: French 4 or equivalent. Two hours credit.
11 a.m., L.H. 1. Mr. Duehren.

GERMAN

S1. Elementary Course. Essentials of German grammar presented in a direct method, inductive readings, dictation, pronunciation, practice in speaking and writing German. Four hours credit.
8 and 10 a.m., J411. Mr. Magyar.

S3. Intermediate German. Reading of German prose and poetry, subjects in German history and biography, composition.
Prerequisite: German 2 or equivalent. Four hours credit.
8 and 10 a.m., J402. Mr. Schroetter.

S122. Methods of Teaching Foreign Languages. The methodical question, philological introduction, and literary selections. (Not counted toward Major.) Two hours credit.
9 a.m., L.H. 3. Dr. Dehorn.

S190. History of German Literature from Goethe's Death to the Present Time. General survey, interpretation of the most representative works, collateral reading.
Prerequisite: German 4 or equivalent. Two hours credit.
11 a.m., J408. Mr. Schroetter.

S250. Goethe. Biographical works, poems, Egmont, Iphigenie, Tasso, Faust. Practice in textual and literary criticism. With consent of the instructor. Two hours credit.
9 a.m., L.H. 4. Mr. Magyar.

SPANISH

S3. Intermediate Course. Condensed grammar review, composition and conversation. Reading of longer selections of contemporary prose. Emphasis on facility and accuracy in the reading and writing of Spanish.
Prerequisite: Spanish 1 and 2, or equivalent. Four hours credit.
8 and 10 a.m., J202. Mr. Scanlon.

S107. Spain and Latin America. A discussion of the cultural life and spiritual aspirations of the Spaniard, and a critical study of the main trends in Spanish literature. Two hours credit.
11 a.m., L.H. 3. Mr. Scanlon.

Modern Language 122. Methods of Teaching Modern Languages. The methodical question, philological introduction and literary selections. (Not counted toward a Major.) Two hours credit.
9 a.m., L.H. 3. Dr. Dehorn.

MUSIC

Dean Semmann, Professors Zeitz, Wegener, Watts; Associate Professors Bumbalek, Dodge; Instructors Christoph, Wilk, Schrup

S3. Methods in Piano Teaching. Lectures covering the following subjects will be given: the instrument; principles of teaching, past and present; a practical presentation of the elements of music; the adjustment of the playing apparatus to the keyboard.
2 p.m., M4. Two hours credit.

S3b. Methods in Piano Teaching. Agogics, figures and their treatment, system of fingering; a graded list of teaching material.
3 p.m., M4. Two hours credit.

S3c. Methods in Piano Teaching. An analytical survey of finger exercises and etudes; interpretation; an analysis of classic and modern piano literature.
11 a.m., M4. Two hours credit.

S4. Methods in Public School Music. A course dealing with fundamental facts, principles and methods involved in the teaching of public school music; selection of subject matter adapted to the needs and interests of children; drill; the study of the child voice; ear-training; problems of time and tune; study of the individual needs of pupils; examination of text books and art material for grades one, two, three, and four.
8 a.m., M1. Two hours credit.

Class Violin Lessons. The technique of the bow specializing in staccato, spiccato; Martele, Rode, Kreutzer, Viotti, and Paganini bowings; the technique of the left hand; correct position, specializing in shifting of thumb in scales and arpeggios; past and present fingering; repertoire and interpretation from the old classics to the highly modern composers. A valuable course for teachers.
Hours to be arranged. M19. One or two hours credit.

Class Lessons in Vocal Repertoire and Interpretation. Members of the class will be given a comprehensive idea of the classics; stress will be laid on tone, its control in singing, breath, intonation, phrasing, enunciation. An opportunity for voice teachers to acquire discriminating judgment in voice training.
Hours to be arranged. M3. One or two hours credit.

Private Lessons in Piano, Voice and Violin. To satisfy the growing demand for class piano teachers in elementary, and in Junior and Senior High Schools. The course consists of lectures on economic advantages, class management, applied psychology, training of ear, mind, eye and will. Harmony. Educational comparisons. Administrative problems.
Minimum for class: five registrants. One hour credit.
1 p.m., Mon., Wed., Fri., M13.

Theoretical Courses are offered in Harmony, Counterpoint, Form and Analysis and Composition.
Hours to be arranged. M4, M12. One or two hours credit.

PHILOSOPHY

Professor McCormick, Mr. Riedl, Father Suelzer, Father Moore

Major: 20 hours in courses marked 100 or over, and including thesis.

Minor: 12 hours in courses marked 100 or over.

S1. Logic. Comprises the customary treatment of formal logic with emphasis on inductive reasoning and the informal reasoning of everyday life and literature. The latter part of the course discusses the meaning of truth and certitude and the grounds for the objective validity of knowledge.
Section 1 at 8 a.m., Law A. Two hours credit.
Section 2 at 11 a.m., S100. Mr. Riedl.

S101. Psychology. A study of the Scholastic system of Philosophy in its explanation of the phenomena of rational life; the nature of the human mind; the phenomena of sense and their relation to intellectual phenomena; the origin, nature and destiny of the human soul with an evaluation of materialistic philosophy in its explanation of these phenomena. Two hours credit.
10 a.m., Law A. Fr. Moore.

S103. Natural Theology. This course studies the idea of God, the proofs for the existence of God, the activity of God in the universe, providence in the natural and supernatural orders. Two hours credit.
9 a.m., Law A. Fr. McCormick.

S104. Fundamental Ethics. This course treats the subjects belonging to the general theory of ethics; the nature of the moral act; the norm of morality; natural and positive moral laws; conscience, rights and duties. Two hours credit.
9 a.m., S100. Fr. Suelzer.

S105. Applied Ethics. The application of the general principles of ethics to particular and social rights and duties; the rights to property, life and honor; the rights and obligations of domestic society; civil so-

ciety, its nature and forms; the origin of civil authority; the ethics of international relations. Two hours credit.
11 a.m., Law A. Fr. Suelzer.

S115. Epistemology. A criticism of the principles underlying the philosophy of Kant; the nature of truth; the capacity of the human mind for truth; nature of certitude and its essential grades; Scepticism; the sources of true and certain knowledge; Idealism; the nature of universal ideas; the Scholastic Theory of Moderate Realism; objective evidence, the ultimate criterion of truth. Two hours credit.
8 a.m., Law B. Fr. Moore.

S262. Cosmology. Theories concerned with the explanation of extended reality. Two hours credit.
10 a.m., S200. Fr. McCormick.

PHYSICS

Professor Skinner and Mr. Cordes

Major: 25 hours, including thesis.

Minor: 14 hours.

S1. General Physics. Mechanics, properties of matter, wave-motion, sound and heat.
Lecture 9 a.m., S206. Four hours credit.
Laboratory 10-12 a.m., S210. Mr. Cordes.

S130. Wave Motion and Sound. An elementary mathematical treatment of wave motion; application of wave motion to the study of sound; musical instruments; architectural acoustics.
Prerequisite: Physics 1 and 2. Two hours credit.
11 a.m., S206. Dr. Skinner.

S145. Physical Optics. An application of wave motion to the study of interference, diffraction and polarization.
Prerequisite: Eight hours of Physics. Two hours credit.
9 a.m., S203. Dr. Skinner.

S146. Advanced Optical Laboratory. To accompany Physics 145.
Time to be arranged. S203. Two hours credit.
Dr. Skinner.

S280. Radiation and Quantum Theory. Two hours credit.
8 a.m., S206. Dr. Skinner.

SOCIAL SCIENCES

Professors Lapp and Pyle, and Miss Preece

Major: 24 hours, including thesis.

Minor: 12 hours in courses above 99.

Economics S10. Principles of Economics I. This course involves a study of the fundamental underlying principles of modern industrial society. Beginning with a characterization of modern industrial organizations, the student is led to an analysis of the problems of production, value at is arises in the exchange of goods, human wants and their satisfaction in consumption. Two hours credit.
10 a.m., J300. Dr. Pyle.

Political Science S2. American Government. An outline of the organization and operation of the American system of government. The federal system; the relation of states and nation; the separation of powers into legislative, executive and judicial departments and the functions of each; the system of local government; and the interrelations of local, state and national government. Two hours credit.
11 a.m., S200. Dr. Lapp.

Political Science III. State Government. A study of the organization and administration of state governments and the problems with which state governments deal. Two hours credit.
9 a.m., S200. Dr. Lapp.

Sociology S1. Social Orientation. An introduction to the study of sociology and social problems. The normal institutions of society will be studied in their relation to the individual. This will be followed by the discussion of the pathology of social institutions including such problems as poverty, delinquency and family disintegration.
10 a.m., S300. Two hours credit.
Dr. Lapp.

Sociology S120. Poverty and Dependency. Types of poverty; the extent of poverty in the United States. A comparative study of the causes of poverty; physical environment, economic exploitation, family disorganization, defective education, illness, intemperance and vice. Remedial and preventive measures; organized charity, protective legislation, the regulation of unemployment, the minimum wage pensions, social insurance; the larger outlook in programmes of industrial democracy and cooperation.
8 a.m., S200. Dr. Lapp.

Sociology S185. Introduction to Play and Recreation. A course in the fundamentals of play and recreation as a part of a social program.
Two hours credit.
11 a.m., Law C. Miss Preece.

SPEECH

Professor Thompson, Associate Professor Klein,
and Instructor Robertson

Major: 30 hours, including thesis.

Minor: 14 hours.

S5. Oral English. Practice in oral composition: narration, description, and exposition. Diction training. Organization and development of subject-matter. This course is intended primarily as a fundamental course, to offer supplementary training to the rhetoric courses offered by the English Department and for those students who intend to teach. Credit in English or Speech. Two hours credit.
8 a.m., J309. Mrs. Robertson.

S40. Technique of Platform Reading. Relation of language to expression. The nature of expression; explanation of the law and technique. Practice in the interpretation of the more simple forms of literature. Two hours credit.
9 a.m., J202. Mrs. Robertson.

S42. The Story. The narrative element in expression, (story telling); analysis of the epic spirit in Literature; the study of the epic, the novel, the short story, to afford practice in interpretation, and creative individual expression; analysis of situation, character, mood, and setting; fiction as an educational factor in voice and body training; a contrast study of the narrative with the dramatic technique. The work is designed to meet the need of the teacher, the librarian, and the community leader. Two hours credit.
11 a.m., M1. Mrs. Robertson.

S43. Oral Study of Literature. Selected passages of English literature, verse and prose. Analysis of principles for effective reading—oral and silent. Laboratory method. Course not open to students who have taken Speech 40 or Speech 41. Two hours credit.
10 a.m., J307. Mr. Thompson.

S70. Voice and Diction. A course in practice work for individual development. Exercises, criticisms,and conferences. Two hours credit.
11 a.m., J307. Mr. Thompson.

S120. The One Act Play. A presentation of the technical elements of the one act play. The course will discuss the genre of the brief drama, its structure, and analysis of recent successful plays and compositional exercises. The brevity of this popular form makes possible a practical and tangible study of plot construction, characterization, effec-

tive dialogue and concentrated effort in compositional completeness. May be counted toward English credit.
Prerequisite: Courses 40 or 41. Two hours credit.
8 a.m., J500. Miss Klein.

S121. Stage Crafts. Technical branches of Production. Working with models, stage lighting. Experimental laboratory. Practical work in costuming, make-up, scene-painting, and other theatrical arts and crafts. Two hours credit.
10 a.m., L.H. 3. Miss Klein.

S125. Play Production. Production of selected plays of representative modern and contemporary dramatists. Two hours credit.
9 a.m., L.H. 1. Miss Klein.

S141. Dramatic Reading. A survey of English and American dramatic literature. Adaptation of material for programs. Stage and platform deportment. Two hours credit.
9 a.m., J307. Mr. Thompson.

ZOOLOGY

Professor Menge and Assistant Professor Bragg

Major: 25 hours, besides 4 hours in Botany, and thesis.

Minor: 16 hours.

S1. General. This course includes a study of typical examples of the great animal divisions both from an anatomical and a physiological point of view. The student learns the fundamental properties of animals, their structure, functions, classification, habits, life histories, and evolution. The forms selected for study illustrate the chief principles and generalizations of zoology. Four hours credit.
Lecture 8 a.m. Laboratory 10-12 a.m., S304. Dr. Menge.

S100. Introductory Vertebrate Embryology. This course includes the study of cell-division, maturation, fertilization, cleavage, formation of the germ-layers, and development of the various organ systems. The work is largely comparative, the frog and chick forming the basis of the comparison.
Prerequisite: Zoology S1 or equivalent. Four hours credit.
Lecture 8 a.m. Laboratory 10-12 a.m., S314. Mr. Bragg.

S101. Comparative Anatomy and Physiology of Vertebrates. The comparisons are made with the frog (representing the amphibians), the dogfish (representing the link between the early and the modern fishes), the turtle (representing the structural peculiarities of reptiles and birds),

and the cat or rabbit (representing the mammalian group).
Prerequisite: Zoology S1 or equivalent. Four hours credit.
Lecture 8 a.m. Laboratory 10-12 a.m., S314. Mr. Bragg.
(Not given during the summer of 1929.)

NOTE: For the guidance of those who must confine much of their work to Summer Sessions, the following announcement is made:

Course S1 will be given each year for the six weeks of the Summer Session. Courses S100 and S101 will be given in alternate years. **S100 is to be given during the present summer, 1929.**

YOUR CREDITS*
For Your Convenience

Year	Sem.	Subject	No.	Description	Cr.	Gr.	Teacher

*This may be used also for the program or plan of study.

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MARQUETTE UNIVERSITY

Milwaukee, Wisconsin

GRADUATE SCHOOL

Courses leading to the degrees of Master of Arts, Master of Science, and Doctor of Philosophy.

COLLEGE OF LIBERAL ARTS

Courses in Letters, Sciences, Philosophy, and Education leading to the Bachelor's degree.

THE R. A. JOHNSTON COLLEGE OF BUSINESS ADMINISTRATION

A four-year course leading to the degree of Bachelor of Science and Bachelor of Philosophy in Business Administration.

COLLEGE OF JOURNALISM

Four-year courses leading to the degrees of Bachelor of Arts in Journalism, Bachelor of Science in Journalism, and Bachelor of Philosophy in Journalism.

SCHOOL OF LAW

A three-year course leading to the degree of Bachelor of Laws, following two years of pre-legal work in the College of Liberal Arts and a combined six-year course leading to the degree of Juris Doctor.

SCHOOL OF DENTISTRY

A three-year course, following two years of pre-dental work in the College of Liberal Arts, leading to the degree of Bachelor of Science and Doctor of Dental Surgery. A one-year course for women leading to the Dental Hygienist's diploma.

COLLEGE OF APPLIED SCIENCE AND ENGINEERING

Courses in Civil, Mechanical, Chemical, and Electrical Engineering, leading to professional degrees.

SCHOOL OF MEDICINE

A five-year-course leading to the degree of Doctor of Medicine.

SCHOOL OF NURSING

A three-year course conducted in connection with the Marquette University Hospital.

COLLEGE OF MUSIC

Instruction in Piano, Vocal, Violin, and all orchestral instruments. Theory and History of Music, Public School Music, Ensemble and Sight Reading.

SCHOOL OF SPEECH

Three divisions of specialization—Platform Art, Dramatic Art, Speech and Debate. A four-year course leading to the Bachelor's degree consisting of two years of pre-speech work in the College of Liberal Arts followed by two years in the School of Speech; a combined five-year course of Arts and Speech.

SUMMER SESSION

Six weeks' session during June and July.

MARQUETTE UNIVERSITY HIGH SCHOOL

Preparatory Department, Classical and Scientific courses.